

ALESIS

RA300 (G5)

Service Manual

P/N: 8-31-0098-A

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Preface

This document is intended to assist the service technician in the operation, maintenance and repair of the Alesis device. Together with the User Reference Manual, this document provides a complete description of the functionality and serviceability of the Device. Any comments or suggestions you may have pertaining to the document are welcome and encouraged.

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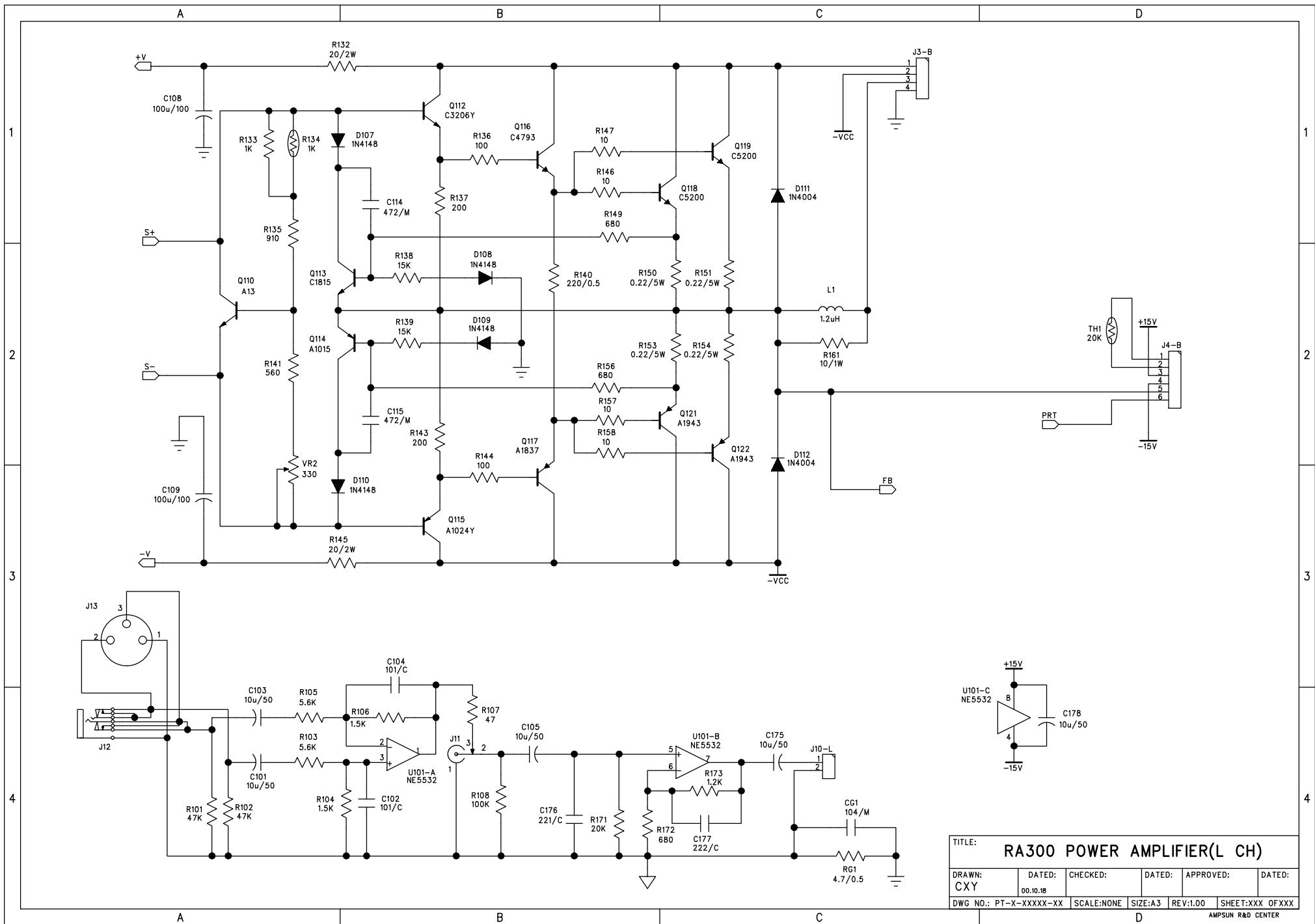
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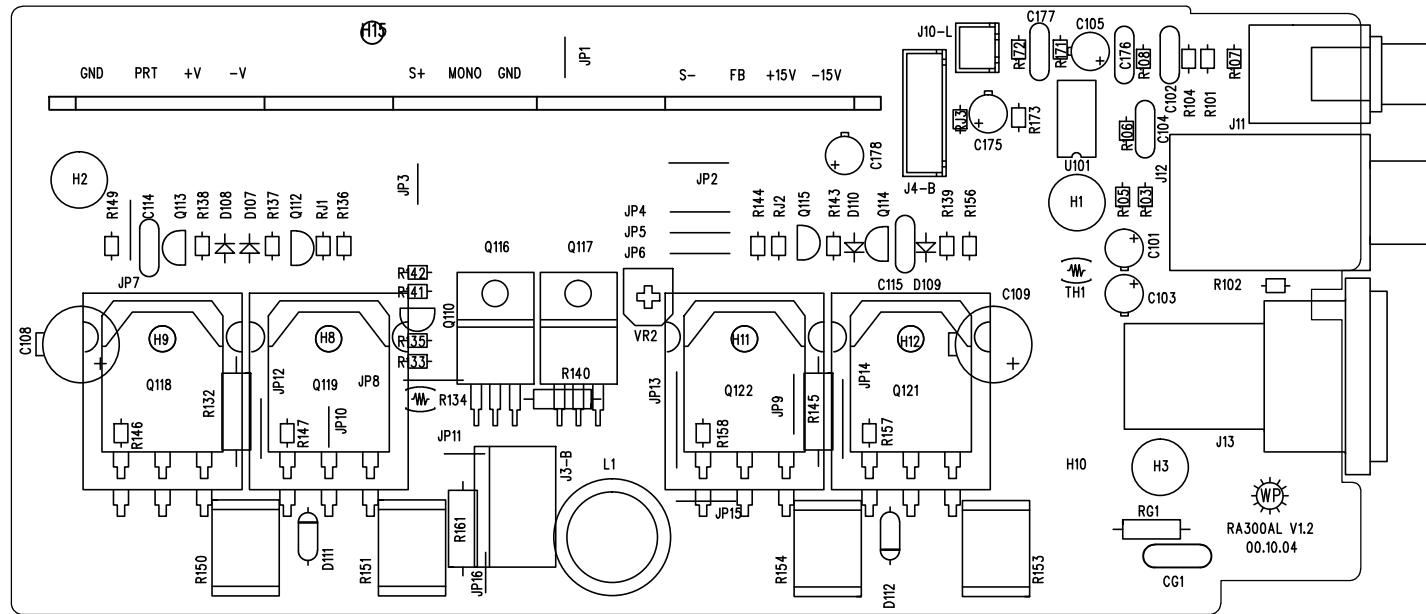
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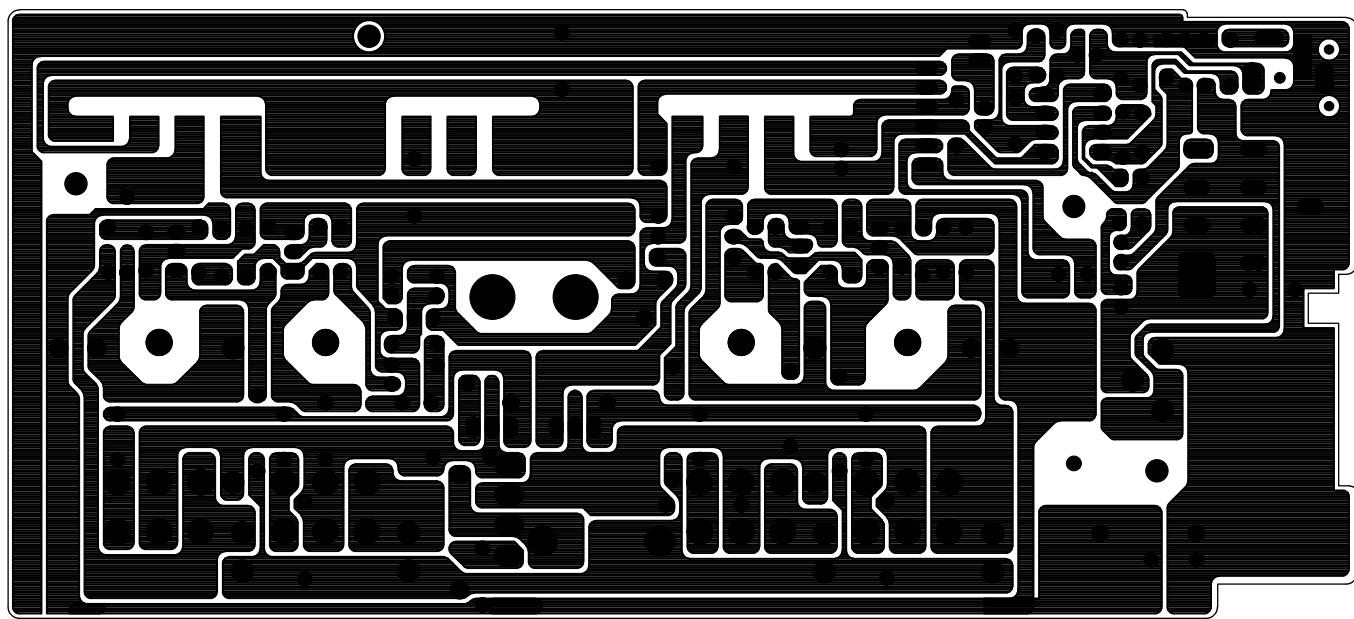
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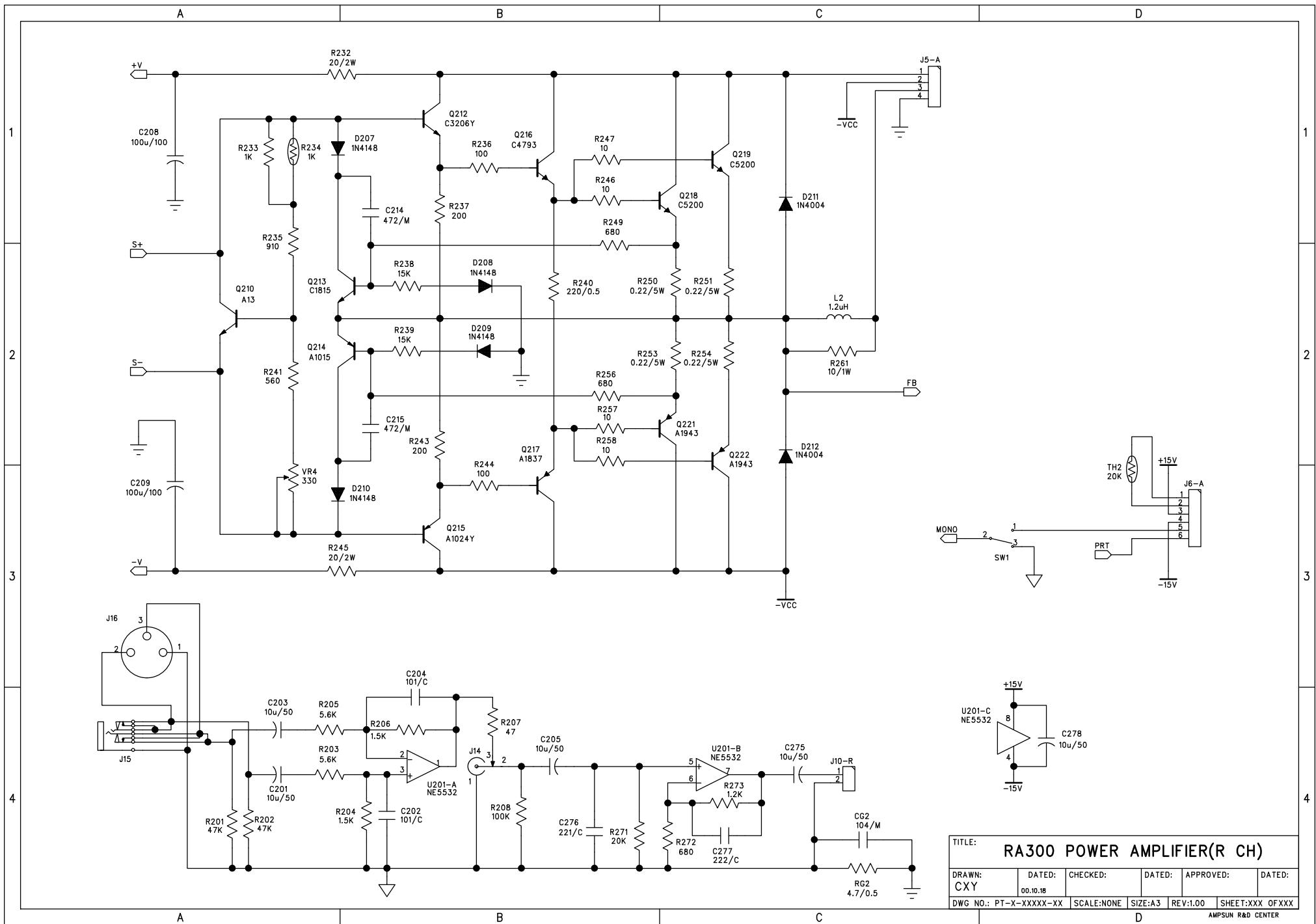
RA300 (G5)
SCHEMATIC
AND
PCB
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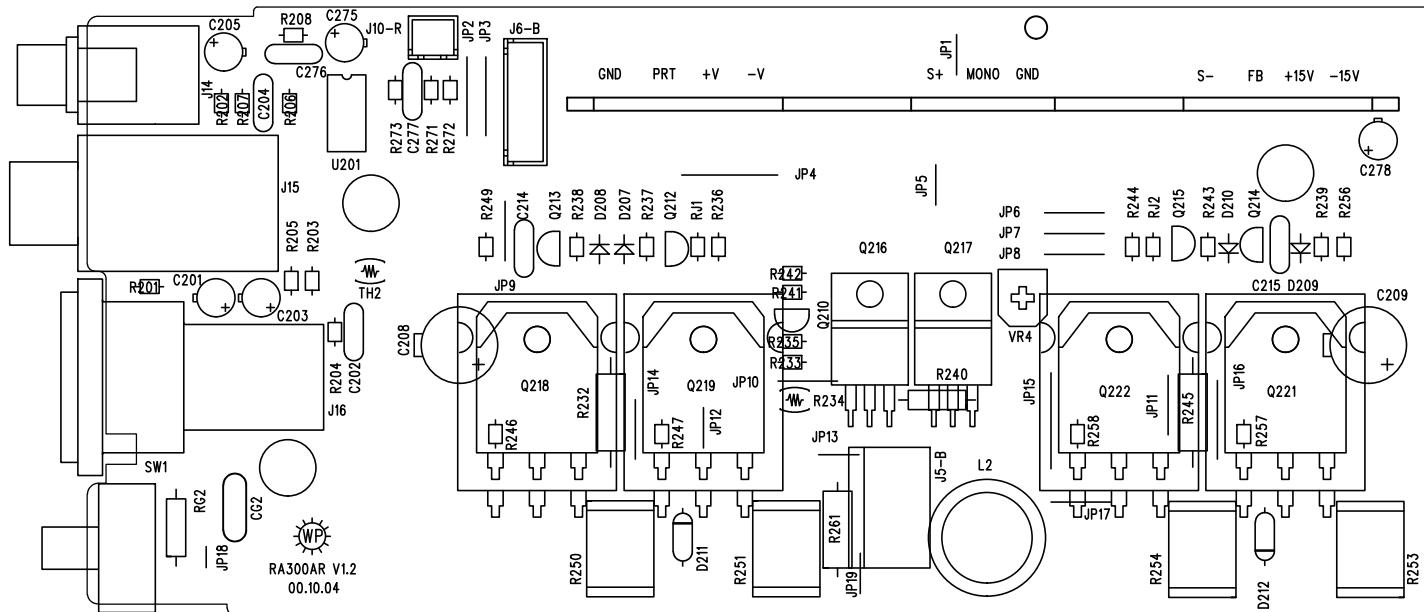




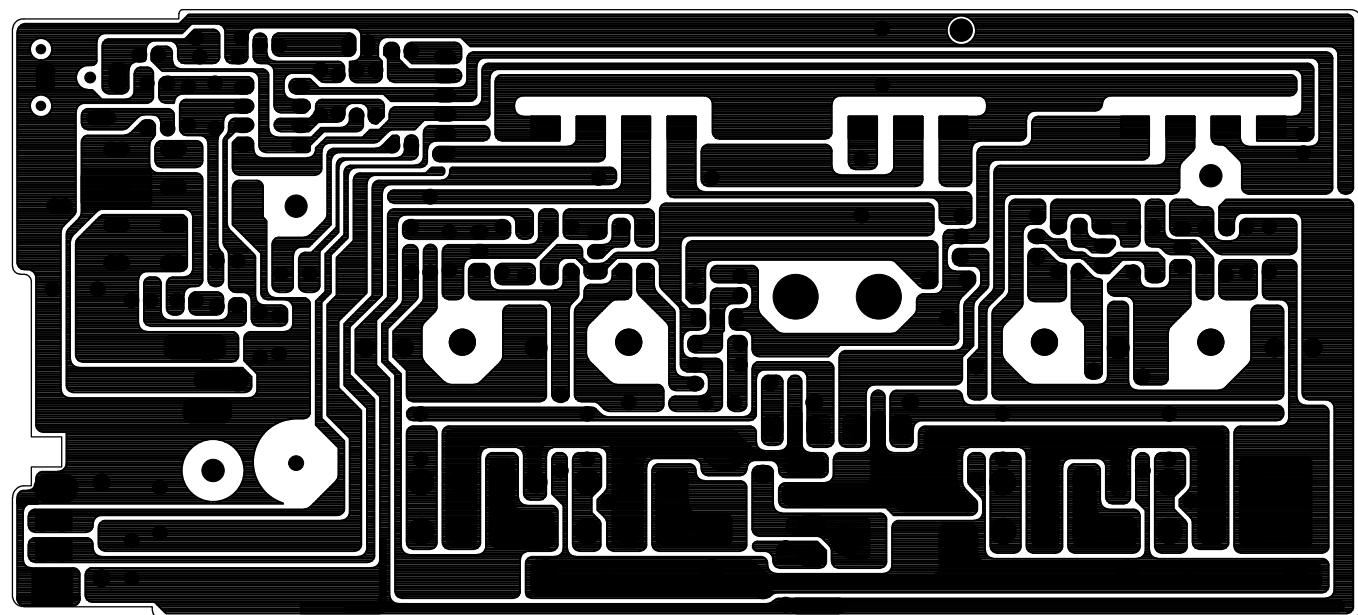
HOMNI ENTERPRISES CO.,LTD
RA300AL V1.1 00.10.04







HOMNI ENTERPRISES CO.,LTD
RA300AR V1.1 00.10.04
SILKSCREEN TOP SIDE

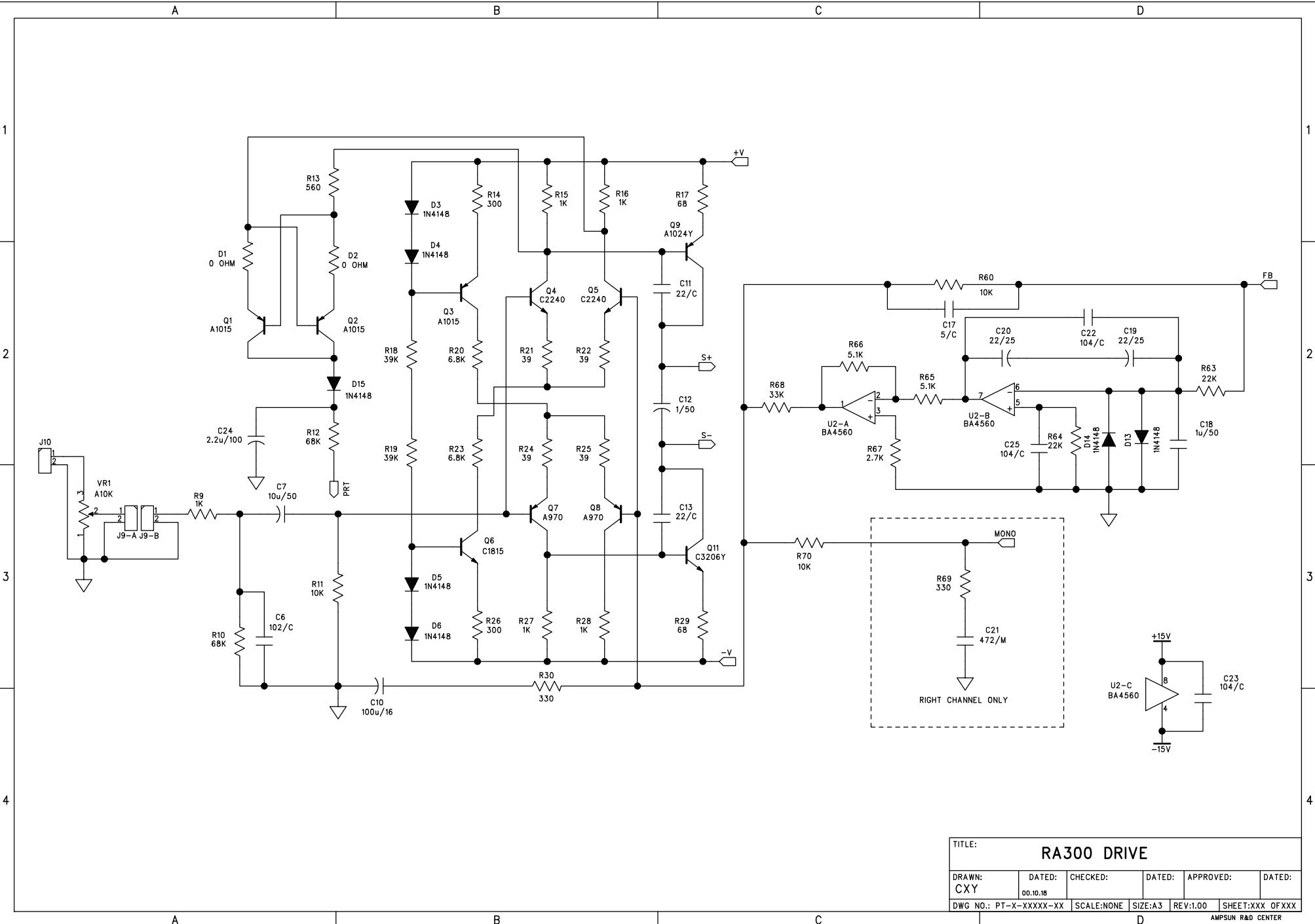


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TITLE: RA300 DRIVE					
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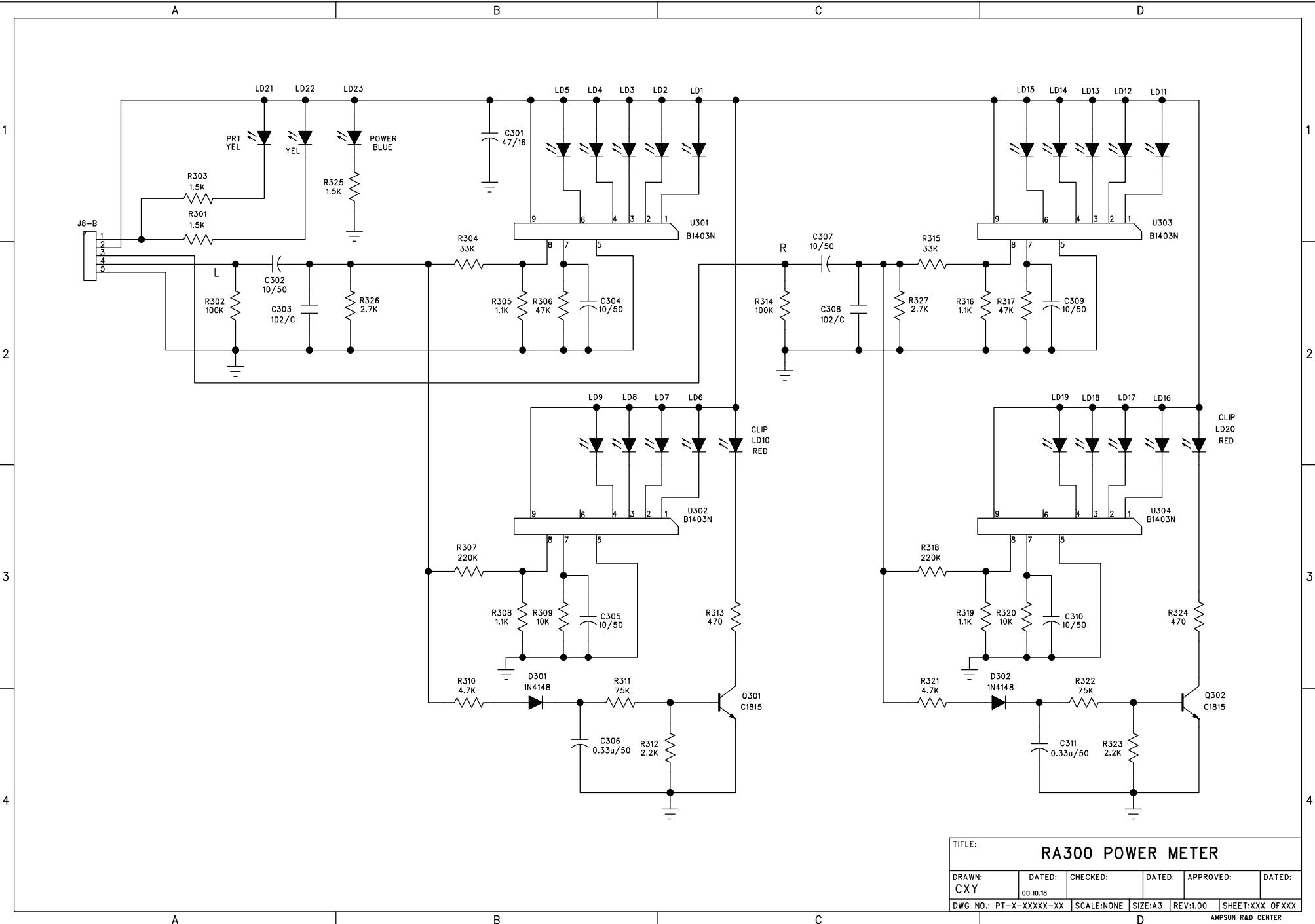
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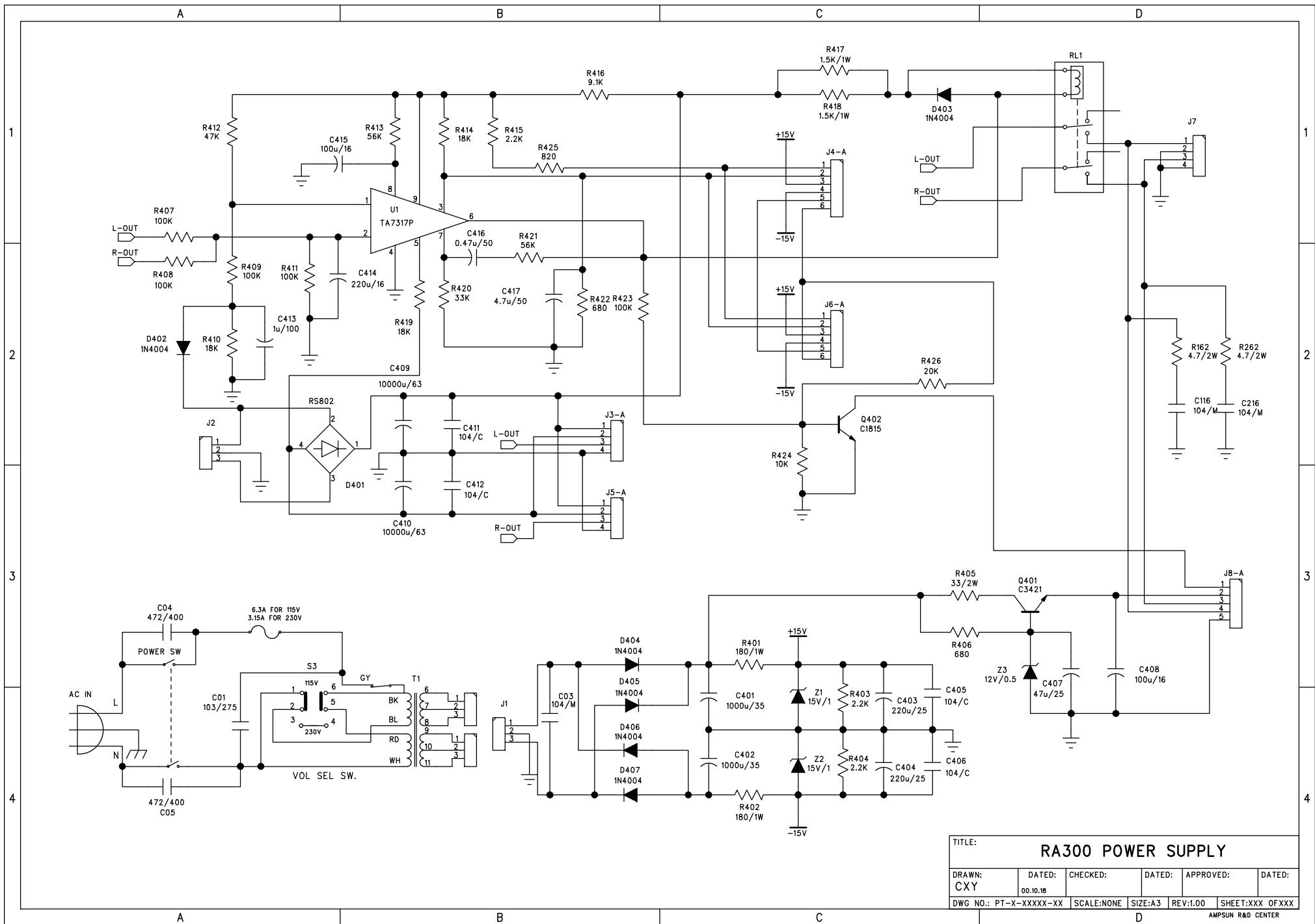
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RA300 POWER METER					
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CXY	00.10.18				
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RA300 POWER SUPPLY					
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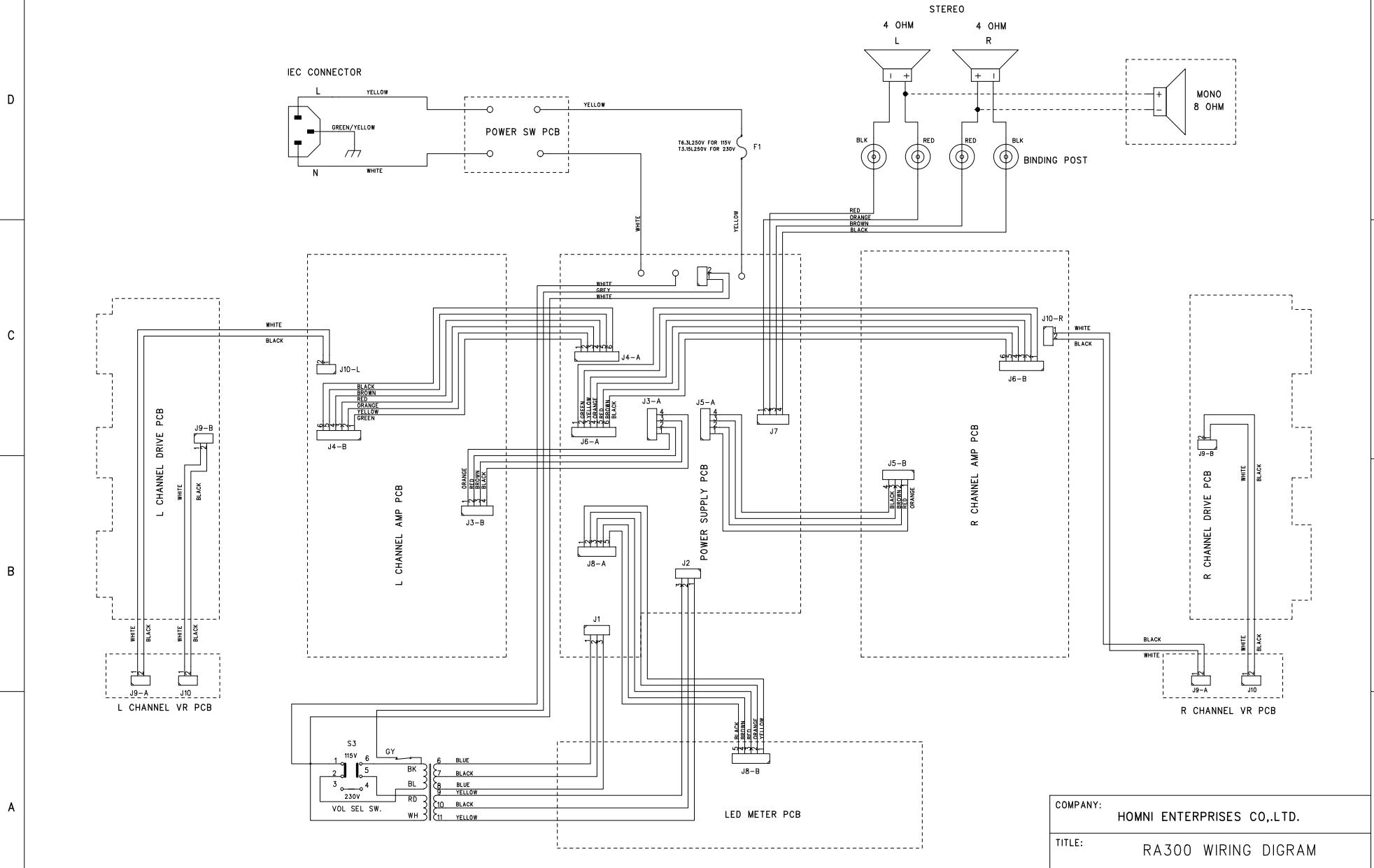
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RA300 (G5)

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? PRODUCT	HOME AMP	MODEL	PE-QT-016-A		PAGE
			RA300(2*150W)AMP BOARD(L CHANNEL)		
? NO.	PART NO.	MATERIAL	SPECIFICATION	QTY	
?	1 CB0118001000	PCB	RA300AL,V1.2,178.5*80.5mm,2OZ	1	
	2 JP1080750000	JUMPER	F0.8*7.5mm	5	
	3 JP1081000000	JUMPER	F0.8*10mm	9	
	4 JP1081250000	JUMPER	F0.8*12.5mm	1	
	5 JP1081500000	JUMPER	F0.8*15mm	1	
	6 RR0100000210	C/R	1/8W,0 ohm,+-5%	3	
	7 RR0101000210	C/R	1/8W,10 ohm,+-5%	4	
	8 RR0104700210	C/R	1/8W,47 ohm,+-5%	1	
	9 RR0110000210	C/R	1/8W,100 ohm,+-5%	2	
	10 RR0120000210	C/R	1/8W,200 ohm,+-5%	2	
	11 RR0156000210	C/R	1/8W,560 ohm,+-5%	1	
	12 RR0168000210	C/R	1/8W,680 ohm,+-5%	2	
	13 RR0191000210	C/R	1/8W,910 ohm,+-5%	1	
	14 RR0110010210	C/R	1/8W,1K ohm,+-5%	1	
?	15 RR0115010210	C/R	1/8W,1.5K ohm,+-5%	2	
	16 RR0156010210	C/R	1/8W,5.6K ohm,+-5%	2	
	17 RR0115020210	C/R	1/8W,15K ohm,+-5%	2	
	18 RR0120020210	C/R	1/8W,20K ohm,+-5%	1	
	19 RR0147020210	C/R	1/8W,47K ohm,+-5%	2	
	20 RR0110030210	C/R	1/8W,100K ohm,+-5%	1	
	21 RR0122000410	C/R	1/2W,220 ohm,+-5%	1	
	22 RR0468000210	M/R	1/8W,680 ohm,+-1%	1	
	23 RR0412010210	M/R	1/8W,1.2K ohm,+-1%	1	
	24 RR0300470410	MO/R	1/2W,4.7 ohm,+-5%	1	
	25 RR0301000520	MO/R	1W,10 ohm,+-5%	1	
	26 RR0302000620	MO/R	2W,20 ohm,+-5%	2	
	27 RR0700022842	CEMENT RES	5W,0.22 ohm,+-5%, 13*9*25mm	4	
	28 RR0810010000	THERMAL RES	1K ohm,+-5%,?????	1	
	29 RR0820020001	THERMAL RES	20K ohm,+-5%,?????,??????	1	
	30 CC1100005110	C/C	101/50V,+-5%,NPO	2	
	31 CC1220005110	C/C	221/50V,+-5%,NPO	1	

?	32	CC1220105520	C/C	222/50V,+/-10%,Y5P	1
?	33	CC2100309010	M/C	104/100V,+/-5%	1
	34	CC2470109010	M/C	472/100V,+/-5%	2
	35	EC1100505120	E/C	10UF/50V,+/-20%,85?,F5*12mm	5
	36	EC1100609120	E/C	100UF/100V,+/-20%,85?,F10*20mm	2
	37	IC0710553200	IC	NE5532P,DIP8	1
	38	DI0100414800	DIODE	1N4148,75V,200mA,1/2W	4
	39	DI0100400400	DIODE	1N4004,400V,1A	2
	40	TR0103018150	TR	2SC1815GR,150mA,50V,400mW,NPN	1
?	41	TR0204010150	TR	2SA1015GR,150mA,50V,400mW,PNP	1
	42	TR0116032060	TR	C3206Y,KEC	1
	43	TR0215010240	TR	A1024Y,KEC	1
	44	TR0101000130	TR	MPSA13,500mA,30V,625mV,NPN,DARLINGTON	1
	45	TR0103047930	TR	2SC4793,NPN	1
	46	TR0204018370	TR	2SA1837,PNP	1
	47	TR0103052000	TR	2SC5200,15A,230V,150W,NPN	2
?	48	TR0204019430	TR	2SA1943,15A,230V,150W,PNP	2
?	49	LN3151000100	NARROW CHOKE	ERECT,1.2UH	1
	50	VR5033100200	TRIM VR	331B,F-637V-TR	1
	51	RA1032010000	RCA JACK	AV-8.4-3,3PIN WHITE,GILD	1
	52	JA0800000000	6.35 JACK	CK3-6.35-02B,GILD, WITH PLASTIC NUT	1
?	53	JA0703200000	XLR JACK	900C ANGLE,94M-007P1	1
	54	JA0102110000	2P SOCKET	2532-02-180 DEGREE,P=2.54mm	1
	55	AL5801200410	4PIN PLUG WIRE	18#,4P,P=4.0,L=120mm,WITH 8639 PLUG	1
?	56	AL5201500621	6PIN PLUG WIRE	22#,6P,P=2.54,L=150mm	1

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				PE-QT-016-A			
? PRODUCT	HOME AMP	MODEL	RA300(2*150W)AMP BOARD PARTS(R CHANNEL)	PAGE			
? NO.	PART NO.	MATERIAL	SPECIFICATION	QTY			
?	1 CB0118001001	PCB	RA300AR,V1.2,178.5*80.5mm,2OZ??				1
	2 JP1080500000	JUMPER	F0.8*5mm				1
	3 JP1080750000	JUMPER	F0.8*7.5mm				5
	4 JP1081000000	JUMPER	F0.8*10mm				8
	5 JP1081250000	JUMPER	F0.8*12.5mm				3
	6 JP1081500000	JUMPER	F0.8*15mm				2
	7 RR0100000210	C/R	1/8W,0 ohm,+-5%				2
	8 RR0101000210	C/R	1/8W,10 ohm,+-5%				4
	9 RR0104700210	C/R	1/8W,47 ohm,+-5%				1
	10 RR0110000210	C/R	1/8W,100 ohm,+-5%				2
	11 RR0120000210	C/R	1/8W,200 ohm,+-5%				2
	12 RR0156000210	C/R	1/8W,560 ohm,+-5%				1
	13 RR0168000210	C/R	1/8W,680 ohm,+-5%				2
	14 RR0191000210	C/R	1/8W,910 ohm,+-5%,??				1
?	15 RR0110010210	C/R	1/8W,1K ohm,+-5%				1
	16 RR0115010210	C/R	1/8W,1.5K ohm,+-5%				2
	17 RR0156010210	C/R	1/8W,5.6K ohm,+-5%				2
	18 RR0115020210	C/R	1/8W,15K ohm,+-5%				2
	19 RR0120020210	C/R	1/8W,20K ohm,+-5%				1
	20 RR0147020210	C/R	1/8W,47K ohm,+-5%				2
	21 RR0110030210	C/R	1/8W,100K ohm,+-5%				1
	22 RR0122000410	C/R	1/2W,220 ohm,+-5%				1
	23 RR0468000210	M/R	1/8W,680 ohm,+-1%				1
	24 RR0412010210	M/R	1/8W,1.2K ohm,+-1%				1
	25 RR0300470410	MO/R	1/2W,4.7 ohm,+-5%				1
	26 RR0301000520	MO/R	1W,10 ohm,+-5%				1
	27 RR0302000620	MO/R	2W,20 ohm,+-5%				2
	28 RR0700022842	CEMENT RES	5W,0.22 ohm,+-5%,ERECT,13*9*25mm				4
	29 RR0810010000	THERMAL RES	1K ohm,+-5%,NEG TEMPERATER DEGREE				1
	30 RR0820020001	THERMAL RES	20K ohm,+-5%,NEG TEMP DEGREE, WITH FIXED IRON				1
	31 CC1100005110	C/C	101/50V,+-5%,NPO				2

?	32	CC1220005110	C/C	221/50V,+/-5%,NPO	1
?	33	CC1220105520	C/C	222/50V,+/-10%,Y5P	1
	34	CC2100309010	M/C	104/100V,+/-5%	1
	35	CC2470109010	M/C	472/100V,+/-5%	2
	36	EC1100505120	E/C	10UF/50V,+/-20%,85?,F5*12mm	5
	37	EC1100609120	E/C	100UF/100V,+/-20%,85?,F10*20mm	2
	38	IC0710553200	IC	NE5532P,DIP8	1
	39	DI0100414800	DIODE	1N4148,75V,200mA,1/2W	4
	40	DI0100400400	DIODE	1N4004,400V,1A	2
?	41	TR0103018150	TR	2SC1815GR,150mA,50V,400mW,NPN	1
	42	TR0204010150	TR	2SA1015GR,150mA,50V,400mW,PNP	1
	43	TR0116032060	TR	C3206Y,KEC	1
	44	TR0215010240	TR	A1024Y,KEC	1
	45	TR0101000130	TR	MPSA13,500mA,30V,625mV,NPN,DARLINGTON	1
	46	TR0103047930	TR	2SC4793,NPN	1
	47	TR0204018370	TR	2SA1837,PNP	1
	48	TR0103052000	TR	2SC5200,15A,230V,150W,NPN	2
?	49	TR0204019430	TR	2SA1943,15A,230V,150W,PNP	2
?	50	LN3151000100	NARROW CHOKE	ERECT,1.2UH	1
	51	VR5033100200	TRIM VR	331B,F-637V-TR	1
	52	RA1032010000	RCA JACK	AV-8.4-3,3PIN ,RED,GILD	1
	53	JA0800000000	6.35 JACK	CK3-6.35-02B,GILD,WITH PLASTIC NUT	1
?	54	JA0703200000	XLR JACK	900C ANGLE,94M-007P1	1
	55	JA0102110000	2P SOCKET	2532-02-180DEGREE,P=2.54mm	1
	56	SW0202204000	SWITCH	SK-22F03-G04,L=4mm(COMAX)	1
	57	AL5803500410	4 PIN SOCKET	18#,4P,P=4.0,L=350mm,WITH 8639 PLUG	1
?	58	AL5203500620	6 PIN SOCKET	22#,6P,P=2.54,L=350mm,	1

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? RPODUCT	HOME AMP	MODEL	PE-QT-016-A	PAGE	
			SPECIFICATION		
?	1 CB0818101000	PCB	RA500DRV,V1.1(120*38mm),2OZ??	1	
	2 JP1080500000	JUMPER	F0.8*5mm	3	
	3 JP1081000000	JUMPER	F0.8*10mm	1	
	4 JP1081500000	JUMPER	F0.8*15mm	1	
	5 RR0433000210	M/R	1/8W,330 ohm,+-1%	1	
	6 RR0410020210	M/R	1/8W,10K ohm,+-1%	2	
	7 RR0100000210	C/R	1/8W,0 ohm,+-5%	3	
	8 RR0103900210	C/R	1/8W,39 ohm,+-5%	4	
	9 RR0104700210	C/R	1/8W,68 ohm,+-5%	2	
	10 RR0127000210	C/R	1/8W,300 ohm,+-5%	2	
	11 RR0156000210	C/R	1/8W,560 ohm,+-5%	1	
	12 RR0110010210	C/R	1/8W,1K ohm,+-5%	5	
	13 RR0127010210	C/R	1/8W,2.7K ohm,+-5%	1	
	14 RR0151010210	C/R	1/8W,5.1K ohm,+-5%	2	
	15 RR0168010210	C/R	1/8W,6.8K ohm,+-5%	2	
?	16 RR0110020210	C/R	1/8W,10K ohm,+-5%	1	
	17 RR0122020210	C/R	1/8W,22K ohm,+-5%	2	
	18 RR0133020210	C/R	1/8W,33K ohm,+-5%	1	
	19 RR0139020210	C/R	1/8W,39K ohm,+-5%	2	
	20 RR0168020210	C/R	1/8W,68K ohm,+-5%	2	
	21 CC1005005110	C/C	5PF/50V,+-5%,NPO	1	
	22 CC1022009110	C/C	22PF/100V,+-5%,NPO	2	
	23 CC1100105520	C/C	102/50V,+-10%,Y5P	1	
	24 CC1100305250	C/C	104/50V,+80/-20%,Y5V	3	
	25 EC4100405120	NON POLARITY E/C	1UF/50V,+-20%,85?,F4*7mm	1	
	26 EC1100405120	E/C	1UF/50V,+-20%,85?,F5*12mm	1	
	27 EC1220409120	E/C	2.2UF/100V,+-20%,85?,F5*12mm	1	
	28 EC1100505120	E/C	10UF/50V,+-20%,85?,F5*12mm	1	
	29 EC1220503120	E/C	22UF/25V,+-20%,85?,F5*12mm	2	
	30 EC3100602120	LOW LEAKAGE E/C	100UF/16V,+-20%,85?,F6.3*11mm	1	
	31 IC0110456000	IC	BA4560,DIP8	1	
?	32 DI0100414800	DIODE	1N4148,75V,200mA,1/2W	7	
?	31 TR0103018150	TR	2SC1815GR,150mA,50V,400mW,NPN	1	

	32	TR0204010150	TR	2SA1015GR,150mA,50V,400mW,PNP	3
?	33	TR0103022400	TR	2SC2240,100mA,120V,400mW,NPN	2
	34	TR0204009700	TR	2SA970,100mA,120V,400mW,PNP	2
	35	TR0215010240	TR	A1024Y,KEC	1
?	36	TR0116032060	TR	C3206Y,KEC	1
?	37	JA0102110000	2P SOCKET	2532-02-180?,P=2.54mm	1
	38	AL3501800220	2P SHIELD CABLE	2P,P=2.54mm,L=180mm	1
?	39	AL3502200220	2P SHIELD CABLE	2P,P=2.54mm,L=220mm	1
	40	VR1210307200	VR	F10K,AV16A-20-F14(ALPHA),L=20mm	1
		??:			

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				PE-QT-016-A	
? PRODUCT		HOME AMP		MODEL	RA300(2*150W)AMP DRIVER BOARD PARTS(R CHANNEL)
					PAGE
? NO.	PART NO.		MATERIAL	SPECIFICATION	QTY
?	1	CB0818101000	PCB	RA500DRV,V1.1(120*38mm),2OZ??	1
	2	JP1080500000	JUMPER	F0.8*5mm	2
	3	JP1081000000	JUMPER	F0.8*10mm	1
	4	JP1081500000	JUMPER	F0.8*15mm	2
	5	RR0433000210	M/R	1/8W,330 ohm,+-1%	2
	6	RR0410020210	M/R	1/8W,10K ohm,+-1%	2
	7	RR0100000210	C/R	1/8W,0 ohm,+-5%	3
	8	RR0103900210	C/R	1/8W,39 ohm,+-5%	4
	9	RR0104700210	C/R	1/8W,68 ohm,+-5%	2
	10	RR0127000210	C/R	1/8W,300 ohm,+-5%	2
	11	RR0156000210	C/R	1/8W,560 ohm,+-5%	1
	12	RR0110010210	C/R	1/8W,1K ohm,+-5%	5
	13	RR0127010210	C/R	1/8W,2.7K ohm,+-5%	1
	14	RR0151010210	C/R	1/8W,5.1K ohm,+-5%	2
	15	RR0168010210	C/R	1/8W,6.8K ohm,+-5%	2
?	16	RR0110020210	C/R	1/8W,10K ohm,+-5%	1
	17	RR0122020210	C/R	1/8W,33K ohm,+-5%	1
	18	RR0133020210	C/R	1/8W,39K ohm,+-6%	2
	19	RR0139020210	C/R	1/8W,68K ohm,+-5%	2
	20	RR0168020210	C/R	1/8W,22K ohm,+-5%	1
	21	CC1005005110	C/C	5PF/50V,+-5%,NPO	1
	22	CC1022009110	C/C	22PF/100V,+-5%,NPO	2
	23	CC1100105520	C/C	102/50V,+-10%,Y5P	1
	24	CC1100305250	C/C	104/50V,+80/-20%,Y5V	3
	25	CC2470109010	M/C	472/100V,+-5%	1
	26	EC4100405120	NON POLARITY E/C	1UF/50V,+-20%,85?,F4*7mm	1
	27	EC1100405120	E/C	1UF/50V,+-20%,85?,F5*12mm	1
	28	EC1220409120	E/C	2.2UF/100V,+-20%,85?,F5*12mm	1
	29	EC1100505120	E/C	10UF/50V,+-20%,85?,F5*12mm	1
	30	EC1220503120	E/C	22UF/25V,+-20%,85?,F5*12mm	2
	31	EC3100602120	LOW LEAKAGE E/C	1000UF/16V,+-20%,85?,F6.3*11mm	1

?	32	IC0110456000	IC	BA4560,DIP8	1
?	33	DI0100414800	DIODE	1N4148,75V,200mA,1/2W	7
	34	TR0103018150	TR	2SC1815GR,150mA,50V,400mW,NPN	1
	35	TR0204010150	TR	2SA1015GR,150mA,50V,400mW,PNP	3
?	36	TR0103022400	TR	2SC2240,100mA,120V,400mW,NPN	2
	37	TR0204009700	TR	2SA970,100mA,120V,400mW,PNP	2
	38	TR0215010240	TR	A1024Y,KEC	1
?	39	TR0116032060	TR	C3206Y,KEC	1
?	40	JA0102110000	2P SOCKET	2532-02-180 ,P=2.54mm	1
	41	AL3501800220	2P SHIELD CABLE	2P,P=2.54mm,L=180mm	1
?	42	AL3502200220	2P SHIELD CABLE	2P,P=2.54mm,L=220mm	1
	43	VR1210307200	VR	F10K,VR16A-20-F14(ALPHA),L=20mm	1

BOM

PE-QT-016-A					
? PRODUCT	HOME AMP	MODEL	RA300(2*150W)AMP POWER BOARD PARTS	PAGE	
? NO.	PART NO.	MATERIAL	SPECIFICATION	QTY	
?	1 CB0918101000	PCB	RA500PWR,V1.1 (179*90mm),2OZ??	1	
	2 JP1080500000	JUMPER	F0.8*5mm	1	
	3 JP1080750000	JUMPER	F0.8*7.5mm	1	
	4 JP1081000000	JUMPER	F0.8*10mm	3	
	5 JP1081250000	JUMPER	F0.8*12.5mm	1	
	6 JP1081500000	JUMPER	F0.8*15mm	6	
	7 JP1082000000	JUMPER	F0.8*20mm	3	
	8 RR0100000210	C/R	1/8W,0 ohm,+-5%	1	
	9 RR0168000210	C/R	1/8W,680 ohm,+-5%	1	
	10 RR0122010210	C/R	1/8W,2.2K ohm,+-5%	2	
	11 RR0191010210	C/R	1/8W,9.1K ohm,+-6%,	1	
	12 RR0110020210	C/R	1/8W,10K ohm,+-5%,	1	
	13 RR0118020210	C/R	1/8W,18K ohm,+-5%,	3	
?	14 RR0120020210	C/R	1/8W,20K ohm,+-5%,	1	
	15 RR0133020210	C/R	1/8W,33K ohm,+-5%,	1	
	16 RR0147020210	C/R	1/8W,47K ohm,+-5%,	1	
	17 RR0156020210	C/R	1/8W,56K ohm,+-5%,	2	
	18 RR0110030210	C/R	1/8W,100K ohm,+-5%,	5	
	19 RR0468000210	M/R	1/8W,680 ohm,+-1%,	1	
	20 RR0482000210	M/R	1/8W,820 ohm,+-1%,	1	
	21 RR0422010210	M/R	1/8W,2.2K ohm,+-1%,	1	
	22 RR0303300650	MO/R	2W,33 ohm,+-5%	1	
	23 RR0318000550	MO/R	1W,180 ohm,+-5%	2	
	24 RR0315010550	MO/R	1W,1.5K ohm,+-5%	2	
	25 RR0300470620	MO/R	2W,4.7 ohm,+-5%,	2	
	26 CC1100309250	C/C	104/100V,+80/-20%,Y5V	4	
	27 CC2100309010	M/C	104/100V,+-5%	4	
	28 EC1470305120	E/C	0.47UF/50V,+-20%,85?,F5*12mm	1	
	29 EC1100409120	E/C	1UF/100V,+-20%,85?,F5*12mm	1	
	30 EC1470405120	E/C	4.7UF/50V,+-20%,85?,F5*12mm	1	
?	31 EC1470503120	E/C	47UF/25V,+-20%,85?,F5*12mm	1	

?	32	EC1100602120	E/C	100UF/16V,+/-20%,85?,F5*12mm	2
	33	EC1220602120	E/C	220UF/16V,+/-20%,85?,F6.3*12mm	1
	34	EC1220603121	E/C	220UF/25V,+/-20%,85?,F8*12mm	2
	35	EC1680705130	E/C	1000UF/35V,+50/-0%,85?,F13*21mm	2
	36	EC1100806130	E/C	10000UF/63V,+50/-0%,85?,F30*52mm	2
	37	CC8470115030	APPROVED CAP	472/400V,+/-20%,C/C,(NEED UL,CE APPROVED)	2
	38	CC8100214020	APPROVED CAP	103/275V,+/-20%,(NEED UL CE APPROVED)	1
?	39	IC0620731700	IC	TA7317P,SIP9	1
	40	ZD1012010000	ZENNER DIODE	12V,1/2W	1
	41	ZD1015020000	ZENNER DIODE	1W,15V	2
	42	DI0100400400	DIODE	1N4004,400V,1A	6
	43	DI0300080200	BRIDGE RECTIFIER	RS802,8A/200V	1
	44	TR0103018150	TR	2SC1815GR,150mA,50V,400mW,NPN	1
?	45	TR0103034210	TR	C3421,NPN	1
?	46	JA0102320000	SOCKET	2PIN,PITCH=4mm	1
	47	JA0103320000	SOCKET	3PIN,PITCH=4mm	1
	48	JA0104320000	SOCKET	4PIN,PITCH=4mm	3
	49	JA0103110000	3P SOCKET	2532-03-180 ,P=2.54mm	1
?	50	JA0105110000	5P SOCKET	2532-05-180 ,P=2.54mm	1
	51	JA0106110000	6P SOCKET	2532-06-180 ,P=2.54mm	2
	52	SW0900000000	POWER SWITCH	8212-2(CHILY),WITH M3.0*0.5mm SCREW THREAD	1
	53	PD6000000000	SLIP	E665	3
?	54	RE8010012000	RELAY	12V,DW321-D12S,(10A)	1

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PE-QT-016-A					
? PRODUCT	HOME AMP	MODEL	RA300(2*150W) AMP POWER INDICATOR PARTS	PAGE	
? NO.	PART NO.	MATERIAL	SPECIFICATION	QTY	
?	1 CB1017901000	PCB	RA500LED,V1.1 (125*40mm),2OZ	1	
	2 JP1080500000	JUMER	F0.8*5mm	3	
	3 RR0147000210	C/R	1/8W,470 ohm,+-5%,	2	
	4 RR0111010210	C/R	1/8W,1.1K ohm,+-5%,	4	
	5 RR0115010210	C/R	1/8W,1.5K ohm,+-5%,	3	
	6 RR0122010210	C/R	1/8W,2.2K ohm,+-5%,	2	
	7 RR0127010210	C/R	1/8W,2.7K ohm,+-5%,	2	
	8 RR0147010210	C/R	1/8W,4.7K ohm,+-5%,	2	
	9 RR0110020210	C/R	1/8W,10K ohm,+-5%,	2	
?	10 RR0133020210	C/R	1/8W,33K ohm,+-5%,	2	
	11 RR0147020210	C/R	1/8W,47K ohm,+-5%,	2	
	12 RR0175020210	C/R	1/8W,75K ohm,+-5%,	2	
	13 RR0110030210	C/R	1/8W,100K ohm,+-5%,	2	
	14 RR0122030210	C/R	1/8W,220K ohm,+-5%,	2	
	15 CC1100105520	C/C	102/50V,+-10%,Y5P	2	
	16 EC2330305120	MINI E/C	0.33UF/50V,+-20%,85?,F5*7mm	2	
	17 EC2100505120	MINI E/C	10UF/50V,+-20%,85?,F5*7mm	6	
	18 EC1100806130	MINI E/C	47UF/16V,+-20%,85?,F5*7mm	1	
	19 IC1120140300	IC	LB1403N,SIP9	4	
?	20 DI0100414800	DIODE	1N4148,75V,200mA,1/2W	2	
?	21 LD0245580100	LED	GREEN,LX7030,5*1mm,5*2.8mm	18	
	22 LD0135580100	LED	RED,LX7030,5*1mm,5*2.8mm	2	
?	23 LD0465580100	LED	YELLOW,LX7030 ,?5*1mm,?5*2.8mm	2	
	24 LD1012205020	LED	2*5mm, RB432NC	1	
	25 TR0103018150	TR	2SC1815GR,150mA,50V,400mW,NPN	2	
?	26 AL5302000520	5P PLUG WIRE	5PIN,P=2.54mm,24#,UL1007,L=200mm	1	

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? PRODUCT		HOME AMP	MODEL	PE-QT-016-A RA300(2*150W)PROFESSIONAL AMPLIFIER	PAGE
? NO.	PART NO.	MATERIAL	SPECIFICATION	QTY	
?	1 SM1018000000	RA300LED PARTS	2*150W AMP POWER INDICATORPCBPARTS	1	
2	SM1118000000	RA300PWRPARTS	2*150W AMP POWER BOARD PARTS PARTS	1	
3	SM1218000000	RA300DRV-LPARTS	2*150W AMP DRIVER BOARD PARTS(L CHANNEL)	1	
4	SM1218000001	RA300DRV-RPARTS	2*150W AMP DRIVER BOARD PARTS(R CHANNEL)	1	
5	SM0118000000	RA300ALPARTS	2*150W AMP BOARD PARTS(L CHANNEL)	1	
6	SM0118000001	RA300ARPARTS	2*150W AMP BOARD PARTS(R CHANNEL)	1	
7	FU2060125000	FUSE	5*20mm,GST6A250V(GST)FOR	1	
	FU2030125000		115V,5TT3A250V(5TT)FOR 230V		
8	FS2000000002	FUSE HOLDER	FH-B02	1	
9	TT2221322300	EI POWER TRANSFORMER	300W,AC115/230V INPUT, AC39.5V*2&20V*2 OUTPUT	1	
10	PP2102202800	MICA FILM	22*28mm	8	
11	WL2150120400	GND CABLE	L=150mm,18# YELLOW IN GREEN	1	
12	WL4120050570	UL1617CABLE	L=120mm,20# YELLOW	1	
13	WL4280050560	UL1617CABLE	L=280mm,20# YELLOW	1	
14	WL4280100570	UL1617CABLE	L=280mm,20#WHITE	1	
15	WL4220050500	UL1617CABLE	L=220mm,20#YELLOW,TINNING	1	
16	WL4180100560	UL1617CABLE	L=180mm,20#WHITE	1	
17	WL4250100560	UL1617CABLE	L=250mm,20#WHITE	1	
19	WL5801800410	4PINCABLE	L=180mm,18#,UL1015,PITCH=4mm	1	
20	HP1233110000	BINDING POST	A215BK ,GILD	2	
21	SW1100000000	VOLTAGE SELECT SWITCH	HF-308	1	
22	JA0403000002	POWER SOCKET	3PIN,3516-4)	1	
23	PT1040015000	THERMAL SLEEVE	F4*15mm,BLK	8	
24	PT1200040000	THERMAL SLEEVE	F20*40mm,BLK	1	
25	PT1250040000	THERMAL SLEEVE	F25*40mm,BLK	1	
26	PT1400040000	THERMAL SLEEVE	F40*40mm,BLK	1	
27	PB0600000000	BUSHING	F2.4*80mm	6	
?	28 PB0600000001	BUSHING	F2.5*100mm	8	
			METAL PARTS		
			PACKAGE		

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? PRODUCT		HOME AMP	MODEL	PE-QT-016-A RA300(2*150W) MECHANIC PARTS	PAGE
? NO.	PART NO.	MATERIAL	SPECIFICATION	QTY	
?	1 MT0117925800	TOP COVER	?1.50MM????BLK??	1	
	2 MT0718025800	BOTTOM COVER	?1.50MM????BLK??	1	
	3 MT1018025800	LEFT SIDE PANEL	?1.50MM????BLK??	1	
	4 MT1018025801	RIGHT SIDE PANEL	?1.50MM????BLK??	1	
	5 PL1617911700	VR SWITCH	ABS ???	2	
	6 PM2000000000	PLASTIC FOOT	BLK??,SR-80?	4	
	7 PM2005017001	PLASTIC FOOT	F17*5*4mm	4	
	8 PM1008008002	FOAM	8*8*3mm,????	1	
	9 PM1008090000	FOAM	90*8*2mm,????,??	2	
	10 PL2618040300	LENS	PC???	1	
	11 PL2718040100	LED BRACKET	ABS BLACK	1	
	12 PL0118040300	PLATE	PA765+ SMOKY GRAY	1	
	13 PL1717910100	SWITCH BUTTON	ABS RED	1	
	14 PL1017911700	??	ABS SILIVER	1	
	15 PL1117920501	LED COVER	PS SEMITRANSPARENT WHITE	1	
?	16 HS0818030100	LEFT HEAT SINK	ANODIZE ALUMUN BLK	1	
	17 HS0818030101	RIGHT HEAT SINK	ANODIZE ALUMUN BLK	1	
	18 PC5403071300	COPPER	??M4*4?+M3*8???	6	
	19 PC5403071000	COPPER	??M3*10	4	
	22 SC3005206110	SCREW	M3*5 ROUND BLK	3	
	21 SC3006206110	SCREW	M3*6 ROUND BLK	7	
	31 SC3008206110	SCREW	M3*8 ROUND BLK	4	
	32 SC3008206120	SCREW	M3*8 ROUND ??	1	
	29 SC3010206110	SCREW	M3*12ROUND BLK	8	
	30 SC3014206110	SCREW	M3*14 ROUND BLK	1	
	23 SC4006206110	SCREW	M4*6 ROUND BLK	4	
	24 SC4010206110	SCREW	M4*10 ROUND BLK	16	
	26 SC3006203110	SCREW	M3*6 ?? BLK	2	
	20 SC3006208110	SCREW	M3*6 ?? BLK	16	
	25 SC4012208150	SCREW	M4*12 ?? ??	4	
	28 SC4014208110	SCREW	M4*14 ?? BLK	4	

?	33	SC4006212130		SCREW		M4*6 ???(??) ??	4
?	27	SC3006102210		SCREW		3*6 ??? BLK	10
	34	MS2113055250		NUT		M3 BLK	1
	35	MS2133055250		NUT		M3 NICKEL	1
	36	MS2114070300		NUT		M4BLK	4
	37	MS1114210100		FLAT WASHER		OD10*ID4.2*1.0THK BLACK	4
?	38	MS1113210100		FLAT WASHER		OD10*ID3.2*1.0THK BLACK	9
	39	MS1113208080		FLAT WASHER		OD8*ID3.2*0.8THK BLACK	4
	40	MS1113206030		FLAT WASHER		OD6*ID3.2*0.3THK BLACK	3
	41	MS1123210100		STAR WASHER		OD10*ID3.2*1.0THK ???	1
?	42	MS1324210100		STAR WASHER		OD10*ID4.2*1.0THK ?? ???	4

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? PRODUCT		HOME AMP	MODEL	PE-QT-016-A RA300(2*150W) PACKAGE	PAGE
? NO.	PART NO.	MATERIAL	SPECIFICATION		QTY
?	1 PW3112220000	POWER SUPPLY CABLE	3PIN DOUBLE INSULATE ULPOWER CABLE, 18#,21-00628-02		1
	2 PA1120280300	PE BAG	120*280*0.1mm		1
	3 PA1370660300	PE BAG	370*660*0.1mm		1
	4 PA1240350300	PE BAG	240*350*0.1mm		1
	5 PA1060120100	PE BAG	60*120*0.06mm		1
	6 LB1797020000	MANNUAL	RA????		1
	7 LB1791020000	WARRANTY CARD	??		1
	8 LB1790020001	SERVICE ADRESS	??		1
	9 LB1790020000	???	??		1
?	10 PR1790600000	MODEL STIKER	??		1
	11 LB1790020002	COLOR PAPER	???		1
	13 PR1800200000	BAR CORD(LARGE)	??		2
*	14 PR1800200001	BAR CORA(SMALL)	??		6
	15 PR1790000001	QC LABEL	??		1
	16 PR1790000000	GND STIKER			1
	17 PR0001100000	ORIGINAL STIKER	MADE IN CHINA		1
	18 AS0200000000	DESICCANT			2
	19 XB1800705000	POLY FOAM	RA300		2
	20 XB1800300000	GIFT BOX	RA300		1
?	21 XB1800420000	CARTON	RA300		1/2